
Profile and Research Areas

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My Research at a Glance

- **Software Architectures for Large Scale Systems**
- **Software Analysis and Maintenance**
- **Service Oriented and Resource Computing**
- **Dynamic Analysis, Compliance, Verification**

Focal Points of my Research

- **Services Computing**
 - Resource Oriented Architectures
 - Middleware Technologies
 - Integration and Interoperability

- **System Analysis**
 - Static Analysis
 - Dynamic Analysis
 - Run-time policy verification and simulation

- **Intelligent Systems**
 - Personalized Web Tasking Systems
 - Micro-services and Collaborative systems
 - Trust and Distributed Affordances

Industrial Projects

- **IBM (Toronto Lab)**
 - Adaptation of back end web services to Restful services. REST bindings for SCA.
 - Specification and design of the Personalized Web Tasking (PWT) run-time model. Foundation for Digital Assistants.
 - Model Synchronization Frameworks. Rational Software Architect.
- **Computer Associates (CA Labs)**
 - Root Cause Analysis frameworks. Willey, CMDDB.
 - Large scale event log analysis and filtering.
 - Business process compliance analysis and policy enforcement.

Research Topics I am Interested In

Frameworks

- Open reference architectures and standards
- Model-based engineering methodologies
- Simulation, verification and validation tools
- Adapt-reuse technologies
- Integration, interoperability, modularity, composability
- Efficient deployment – Short Release Cycles - DevOps
- Data and meta-data modeling and reasoning

Applications and Projects

- End-user systems – Intelligent Digital Assistants
- Processes – Risk identification & management
- Operations – Autonomic and Adaptive systems

Contacts

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